

Assignment

Date _____ Period _____

Solve each equation by factoring.

1) $(x - 7)^2 = 0$

2) $(7m + 5)(m + 7) = 0$

3) $x(x + 2) = 0$

4) $(n + 2)(n - 6) = 0$

5) $b^2 + 24 = -11b$

6) $5b^2 - 140 = 15b$

7) $x^2 - 16x = -64$

8) $m^2 - 2m = 0$

9) $10v^2 - 30v + 14 = -4 - 2v^2$

10) $48k^2 - 112k + 35 = -k^2 + 7$

Solve each equation with the quadratic formula.

11) $-6n^2 + 2 = -9n$

12) $7m = -2 - 5m^2$

13) $6r^2 - 19 = -3r^2$

14) $7x = -20 + 3x^2$

Solve each equation by taking square roots.

15) $9x^2 + 6 = 798$

16) $49x^2 - 9 = 0$

17) $7 + 9v^2 = 107$

18) $2 - 6n^2 = -550$

Solve each equation by completing the square.

19) $x^2 - 20x - 35 = 9$

20) $m^2 + 12m - 48 = -3$

21) $v^2 + 18v + 50 = -9$

22) $p^2 + 2p - 89 = 9$